Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

```
1. (currently amended): A stereo camera system
1
    comprising:
2
            a stereo imaging means for outputting at least
3
    one stereo image;
4
             stereo imaging means for outputting at least one
5
    stereo image, said stereo imaging means including:
6
7
                 a camera; and
                  a set of mirrors angled with respect to each
8
         other at a predetermined angle relative to a common
9
         plane intersecting said camera, each mirror having
10
         adjacent ends disposed a predetermined distance from
11
12
         the camera along the common plane, for directing
         light from an object reflected in said mirrors
         directly to the camera, for producing a stereo
14
         effect in the output of the camera;
15
             recognition means for locating an object of
16
    interest in the field of view of the stereo imaging means
17
    and at least one of a distance of the object of interest
18
    from the stereo imaging means and the size of the object
19
    of interest; and
20
```

- 21 adjusting means for automatically changing at least
- one system parameter which affects the spatial resolution
- of the object of interest based on at least one of the
- located distance of the object of interest from the
- 25 stereo imaging means and the size of the object of
- 26 interest.
- 1 2. (canceled).
- 3. (currently amended): The stereo camera system
- of claim $\frac{2}{1}$, wherein the camera is a still camera and
- 3 the at least one stereo image is a still image.
- 4. (currently amended): The stereo camera system of
- 2 claim $\frac{2}{7}$ $\frac{1}{1}$, wherein the camera is a video camera and the
- 3 at least one stereo image is a sequence of video images.
- 1 5. (currently amended): The stereo camera system
- of claim $\frac{2}{1}$ wherein the adjusting means comprises at
- 3 least one of:
- angle adjustment means for adjusting the
- 5 predetermined angle between the set of mirrors;
- distance adjustment means for adjusting the
- 7 predetermined distance between the camera and the set of
- 8 mirrors; and
- 9 focal length adjustment means for changing a
- 10 focal length of the camera.

- 1 6. (original): The stereo camera of claim 5,
- 2 further comprising a controller for controlling at least
- 3 one of the angle, distance, and focal length adjustment
- 4 means based on an input signal from the recognition
- 5 means.
- 1 7. (canceled).
- 1 8. (canceled).
- 1 9. (canceled).
- 1 10. (canceled).
- 1 11. (currently amended): The stereo camera of
- 2 claim 10, further comprising a controller for
- 3 controlling at least one of the angle, baseline,
- 4 distance, and focal length adjustment means based on an
- 5 input signal from the recognition means.
- 1 12. (original): The stereo camera system of claim
- 2 1, wherein the recognition means is a stereo vision
- 3 system.
- 1 13. (canceled).
- 1 14. (canceled).

- 1 15. (canceled).
- 1 16. (canceled).
- 1 17. (canceled).
- 1 18. (canceled).
- 1 19. (canceled).
- 1 20. (canceled).
- 1 21. (currently amended): A method for adjusting a
- 2 stereo camera system to control spatial resolution of an
- 3 object of interest in the field of view of a stereo
- 4 imaging means, the method comprising the steps of:
- outputting at least one image from the stereo
- 6 imaging means;
- 7 locating an object of interest in the field of
- 8 view of the stereo imaging means and at least one of the
- 9 distance of the object of interest from the stereo
- imaging means and the size of the object of interest; and
- 11 automatically changing at least one system
- 12 parameter which affects the spatial resolution of the
- 13 object of interest based on at least one of the located
- 14 distance of the object of interest from the stereo

- imaging means and the size of the object of interest.
- 16 interest; and
- providing said stereo imaging means by further
- including the steps of:
- using a camera to receive light from said
- object;
- establishing a predetermined angle between a
- set of mirrors, the angle being relative to a common
- plane intersecting said camera, and adjacent ends of
- said mirrors; and
- establishing a predetermined distance from the
- 26 camera and the adjacent ends of said mirrors for
- reflecting light from said object from said mirrors
- to said camera, for producing a stereo effect in the
- output of the camera.
 - 1 22. (new): A stereo camera system comprising:
 - a stereo imaging means including two video
 - 3 cameras, each camera being angled a predetermined angle
 - 4 and distanced a predetermined distance with respect to
- 5 each other and the object of interest, for outputting at
- 6 least one stereo image as a sequence of video images;
- 7 recognition means for locating an object of
- 8 interest in the field of view of the stereo imaging means
- 9 and at least one of a distance of the object of interest
- 10 from the stereo imaging means and the size of the object
- 11 of interest;
- adjusting means for automatically changing at
- 13 least one system parameter which affects the spatial

resolution of the object of interest based on at least 14 one of the located distance of the object of interest 15 from the stereo imaging means and the size of the object 16 of interest, wherein the adjusting means comprises: 17 angle adjustment means for adjusting the 18 predetermined angle of at least one of the two 19 cameras; 20 baseline adjustment means for adjusting the 21 22 predetermined distance between the two cameras; 23 distance adjusting means for adjusting a distance between at least one of the two cameras and 24 the object of interest; and 25 focal length adjustment means for changing a 26 focal length of at least one of the two cameras. 27